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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/824,053

DATE: 12/17/2001
TIME: 10:14:15

Input Set : N:\Crf3\RULE60\09824053.txt
Output Set: N:\CRF3\12172001\I824053.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
6 (i) APPLICANT: Peter Stougaard
7 Ole Cai Hansen
9 (ii) TITLE OF INVENTION: RECOMBINANT HEXOSE OXIDASE, A
10 METHOD OF PRODUCING SAME AND USE OF SUCH ENZYME
12 (iii) NUMBER OF SEQUENCES: 34
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Hunton & Williams
16 (B) STREET: 1900 K Street, N.W.
17 (C) CITY: Washington
18 (D) STATE: D.C.
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 20006-1109
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28 (vi) CURRENT APPLICATION DATA:
C--> 29 (A) APPLICATION NUMBER: US/09/824,053
C--> 30 (B) FILING DATE: 03-Apr-2001
31 (C) CLASSIFICATION:
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: 08/669,304
35 (B) FILING DATE:
37 (viii) ATTORNEY/AGENT INFORMATION:
38 (A) NAME: Stanislaus Aksman
39 (B) REGISTRATION NUMBER: 28,562
C--> 40 (C) REFERENCE/DOCKET NUMBER:
42 (ix) TELECOMMUNICATION INFORMATION:
43 (A) TELEPHONE: (202) 955-1926
44 (B) TELEFAX: (202) 778-2201
45 (C) TELEX: None
47 (2) INFORMATION FOR SEQ ID NO: 1:
49 (i) SEQUENCE CHARACTERISTICS:
50 (A) LENGTH: 8 amino acids
51 (B) TYPE: amino acid
52 (C) STRANDEDNESS: unknown
53 (D) TOPOLOGY: unknown
55 (ii) MOLECULE TYPE: peptide
58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
60 Tyr Glu Pro Tyr Gly Gly Val Pro
61 1 5
63 (2) INFORMATION FOR SEQ ID NO: 2:
65 (i) SEQUENCE CHARACTERISTICS:
66 (A) LENGTH: 23 amino acids

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67      (B) TYPE: amino acid
68      (C) STRANDEDNESS: unknown
69      (D) TOPOLOGY: unknown
71      (ii) MOLECULE TYPE: peptide
74      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 76      Ala Ile Ile Asn Val Thr Gly Leu Val Glu Ser Gly Tyr Asp Xaa Xaa
77          1             5             10             15
W--> 79      Xaa Gly Tyr Xaa Val Ser Ser
80          20
82 (2) INFORMATION FOR SEQ ID NO: 3:
84      (i) SEQUENCE CHARACTERISTICS:
85          (A) LENGTH: 16 amino acids
86          (B) TYPE: amino acid
87          (C) STRANDEDNESS: unknown
88          (D) TOPOLOGY: unknown
90      (ii) MOLECULE TYPE: peptide
93      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 95      Asp Leu Pro Met Ser Pro Arg Gly Val Ile Ala Ser Asn Leu Xaa Phe
96          1             5             10             15
99 (2) INFORMATION FOR SEQ ID NO: 4:
101     (i) SEQUENCE CHARACTERISTICS:
102         (A) LENGTH: 14 amino acids
103         (B) TYPE: amino acid
104         (C) STRANDEDNESS: unknown
105         (D) TOPOLOGY: unknown
107     (ii) MOLECULE TYPE: peptide
110     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 112     Asp Ser Glu Gly Asn Asp Gly Glu Leu Phe Xaa Ala His Thr
113         1             5             10
115 (2) INFORMATION FOR SEQ ID NO: 5:
117     (i) SEQUENCE CHARACTERISTICS:
118         (A) LENGTH: 4 amino acids
119         (B) TYPE: amino acid
120         (C) STRANDEDNESS: unknown
121         (D) TOPOLOGY: unknown
123     (ii) MOLECULE TYPE: peptide
126     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
128         Tyr Tyr Phe Lys
129         1
131 (2) INFORMATION FOR SEQ ID NO: 6:
133     (i) SEQUENCE CHARACTERISTICS:
134         (A) LENGTH: 15 amino acids
135         (B) TYPE: amino acid
136         (C) STRANDEDNESS: unknown
137         (D) TOPOLOGY: unknown
139     (ii) MOLECULE TYPE: peptide
142     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 144     Asp Pro Gly Tyr Ile Val Ile Asp Val Asn Ala Gly Thr Xaa Asp
145         1             5             10             15

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147 (2) INFORMATION FOR SEQ ID NO: 7:
149   (i) SEQUENCE CHARACTERISTICS:
150       (A) LENGTH: 11 amino acids
151       (B) TYPE: amino acid
152       (C) STRANDEDNESS: unknown
153       (D) TOPOLOGY: unknown
155   (ii) MOLECULE TYPE: peptide
158   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
160   Leu Gln Tyr Gln Thr Tyr Trp Gln Glu Glu Asp
161       1           5           10
163 (2) INFORMATION FOR SEQ ID NO: 8:
165   (i) SEQUENCE CHARACTERISTICS:
166       (A) LENGTH: 9 amino acids
167       (B) TYPE: amino acid
168       (C) STRANDEDNESS: unknown
169       (D) TOPOLOGY: unknown
171   (ii) MOLECULE TYPE: peptide
174   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
W--> 176 .   Xaa Ile Arg Asp Phe Tyr Glu Glu Met
177       1           5
179 (2) INFORMATION FOR SEQ ID NO: 9:
181   (i) SEQUENCE CHARACTERISTICS:
182       (A) LENGTH: 23 amino acids
183       (B) TYPE: amino acid
184       (C) STRANDEDNESS: unknown
185       (D) TOPOLOGY: unknown
187   (ii) MOLECULE TYPE: peptide
190   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
W--> 192   Ala Ile Ile Asn Val Thr Gly Leu Val Glu Ser Gly Tyr Asp Xaa Xaa
193       1           5           10           15
W--> 195   Xaa Gly Tyr Xaa Val Ser Ser
196       20
198 (2) INFORMATION FOR SEQ ID NO: 10:
200   (i) SEQUENCE CHARACTERISTICS:
201       (A) LENGTH: 16 amino acids
202       (B) TYPE: amino acid
203       (C) STRANDEDNESS: unknown
204       (D) TOPOLOGY: unknown
206   (ii) MOLECULE TYPE: peptide
209   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
211   Asp Leu Pro Met Ser Pro Arg Gly Val Ile Ala Ser Asn Leu Trp Phe
212       1           5           10           15
215 (2) INFORMATION FOR SEQ ID NO: 11:
217   (i) SEQUENCE CHARACTERISTICS:
218       (A) LENGTH: 14 amino acids
219       (B) TYPE: amino acid
220       (C) STRANDEDNESS: unknown
221       (D) TOPOLOGY: unknown
223   (ii) MOLECULE TYPE: peptide

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226      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
W--> 228      Asp Ser Glu Gly Asn Asp Gly Glu Leu Phe Xaa Ala His Thr
229      1          5          10
231 (2) INFORMATION FOR SEQ ID NO: 12:
233      (i) SEQUENCE CHARACTERISTICS:
234          (A) LENGTH: 4 amino acids
235          (B) TYPE: amino acid
236          (C) STRANDEDNESS: unknown
237          (D) TOPOLOGY: unknown
239      (ii) MOLECULE TYPE: peptide
242      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
244      Tyr Tyr Phe Lys
245      1
247 (2) INFORMATION FOR SEQ ID NO: 13:
249      (i) SEQUENCE CHARACTERISTICS:
250          (A) LENGTH: 15 amino acids
251          (B) TYPE: amino acid
252          (C) STRANDEDNESS: unknown
253          (D) TOPOLOGY: unknown
255      (ii) MOLECULE TYPE: peptide
258      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
260      Asp Pro Gly Tyr Ile Val Ile Asp Val Asn Ala Gly Thr Pro Asp
261      1          5          10          15
263 (2) INFORMATION FOR SEQ ID NO: 14:
265      (i) SEQUENCE CHARACTERISTICS:
266          (A) LENGTH: 11 amino acids
267          (B) TYPE: amino acid
268          (C) STRANDEDNESS: unknown
269          (D) TOPOLOGY: unknown
271      (ii) MOLECULE TYPE: peptide
274      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
276      Leu Gln Tyr Gln Thr Tyr Trp Gln Glu Glu Asp
277      1          5          10
279 (2) INFORMATION FOR SEQ ID NO: 15:
281      (i) SEQUENCE CHARACTERISTICS:
282          (A) LENGTH: 9 amino acids
283          (B) TYPE: amino acid
284          (C) STRANDEDNESS: unknown
285          (D) TOPOLOGY: unknown
287      (ii) MOLECULE TYPE: peptide
290      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
W--> 292      Xaa Ile Arg Asp Phe Tyr Glu Glu Met
293      1          5
295 (2) INFORMATION FOR SEQ ID NO: 16:
297      (i) SEQUENCE CHARACTERISTICS:
298          (A) LENGTH: 20 base pairs
299          (B) TYPE: nucleic acid
300          (C) STRANDEDNESS: single
301          (D) TOPOLOGY: linear
  
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Input Set : N:\Crf3\RULE60\09824053.txt
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303      (ii) MOLECULE TYPE: other nucleic acid
305      (ix) FEATURE:
306          (A) NAME/KEY: modified base; N=inosine
307          (B) LOCATION: base pairs 3, 6 and 12
308          (C) IDENTIFICATION METHOD: commercially available
C--> 309      (D) OTHER INFORMATION:(D) OTHER INFORMATION
312      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:                20
314      YTNGTNGARW SNGGNTAYGA
316      (2) INFORMATION FOR SEQ ID NO: 17:
318          (i) SEQUENCE CHARACTERISTICS:
319              (A) LENGTH: 23 base pairs
320              (B) TYPE: nucleic acid
321              (C) STRANDEDNESS: single
322              (D) TOPOLOGY: linear
324      (ii) MOLECULE TYPE: other nucleic acid
326      (ix) FEATURE:
327          (A) NAME/KEY: modified base; N=inosine
328          (B) LOCATION: base pairs 6 and 12
329          (C) IDENTIFICATION METHOD: commercially available
C--> 330      (D) OTHER INFORMATION:(D) OTHER INFORMATION
333      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:                23
335      AACCANARRT TNGANGCDAT NAC
337      (2) INFORMATION FOR SEQ ID NO: 18:
339          (i) SEQUENCE CHARACTERISTICS:
340              (A) LENGTH: 23 base pairs
341              (B) TYPE: nucleic acid
342              (C) STRANDEDNESS: single
343              (D) TOPOLOGY: linear
345      (ii) MOLECULE TYPE: other nucleic acid
347      (ix) FEATURE:
348          (A) NAME/KEY: modified base; N=inosine
349          (B) LOCATION: base pairs 6 and 15
350          (C) IDENTIFICATION METHOD: commercially available
C--> 351      (D) OTHER INFORMATION:(D) OTHER INFORMATION
354      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:                23
356      GARGGNAAYG AYGGNGARCT NTT
358      (2) INFORMATION FOR SEQ ID NO: 19:
360          (i) SEQUENCE CHARACTERISTICS:
361              (A) LENGTH: 23 base pairs
362              (B) TYPE: nucleic acid
363              (C) STRANDEDNESS: single
364              (D) TOPOLOGY: linear
366      (ii) MOLECULE TYPE: other nucleic acid
368      (ix) FEATURE:
369          (A) NAME/KEY: modified base; N=inosine
370          (B) LOCATION: base pairs 3 and 9
371          (C) IDENTIFICATION METHOD: commercially available
C--> 372      (D) OTHER INFORMATION:(D) OTHER INFORMATION
375      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/824,053

DATE: 12/17/2001
TIME: 10:14:16

Input Set : N:\Crf3\RULE60\09824053.txt
Output Set: N:\CRF3\12172001\I824053.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:40 M:220 C: Keyword misspelled or invalid format, [(C) REFERENCE/DOCKET NUMBER:]
L:40 M:220 C: Keyword misspelled or invalid format, Poss data loss, (C) REFERENCE/DOCKET
NUMBER:
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:309 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:330 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:351 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]
L:372 M:220 C: Keyword misspelled or invalid format, [(D) OTHER INFORMATION:]